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PAGE 02

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> <b>(37 CFR 1.63)</b>	Attorney Docket Number	57084-A
	First Named Inventor	MCGAUGHEY, Donald R.
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted With Initial Filing	OR	<input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.15 (e)) required)
Examiner Name		

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MOTOR SPEED ESTIMATION FOR STABILIZED MOTOR CONTROL**

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) [ ] as United States Application Number or PCT International Application Number [ ] and was amended on (MM/DD/YYYY) [ ] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

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**DECLARATION — Utility or Design Patent Application**

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number: 02048		OR <input type="checkbox"/> Correspondence address below	
Name			
Address			
City		State	ZIP
Country		Telephone	Fax
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) DONALD R.		Family Name or Surname MCGAUGHEY	
Inventor's Signature <i>Donald R. McGaughey</i>		Date <i>12 Feb 04</i>	
Residence: City ODESSA	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address RRM1			
City ODESSA	State ONTARIO	ZIP K0H 2H0	Country CANADA
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) MOHAMMED		Family Name or Surname ARBOUCHI	
Inventor's Signature		Date	
Residence: City KINGSTON	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address 1338 PRINCESS STREET, #94			
City KINGSTON	State ONTARIO	ZIP K7M 7N3	Country CANADA
<input checked="" type="checkbox"/> Additional inventors or a legal representative are being named on the 1 supplemental sheet(s) PTO/SB/01 or 02LR attached hereto.			

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PAGE 84

PTO/SS/02A (08-01)  
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**DECLARATION** **ADDITIONAL INVENTOR(S)** Supplemental Sheet Page 1 of 1

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
KEEN		NUTT	
Inventor's Signature	DATE	State	Citizenship
LAKEFIELD		ONTARIO	CANADA
Residence: City		State	Country
RR#2			
Mailing Address			
Mailing Address			
LAKEFIELD		ONTARIO	CANADA
City		State	Country
		K9L 2H9	
		Zip	
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature	DATE	State	Citizenship
Residence: City		State	Country
Mailing Address			
Mailing Address			
City		State	Country
		Zip	
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature	DATE	State	Citizenship
Residence: City		State	Country
Mailing Address			
Mailing Address			
City		State	Country
		Zip	

This collection of information is required by 35 U.S.C. 116 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63)	Attorney Docket Number	57084-A
	First Named Inventor	MCGAUGHEY, Donald R.
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted With Initial Filing	OR	<input type="checkbox"/> Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16 (e)) required)
Examiner Name		

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MOTOR SPEED ESTIMATION FOR STABILIZED MOTOR CONTROL**

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(If applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.58, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to provide or obtain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is provided by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

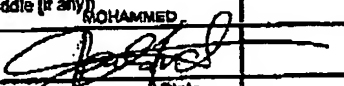
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# DECLARATION — Utility or Design Patent Application

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Name			
Address			
City	State	ZIP	
Country	Telephone	Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR: <input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any)) DONALD R.		Family Name or Surname MCGAUGHEY	
Inventor's Signature		Date	
Residence: City ODESSA	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address RRM#1			
City ODESSA	State ONTARIO	ZIP K0H 2H0	Country CANADA
NAME OF SECOND INVENTOR: <input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any)) MOHAMMED		Family Name or Surname FARBOUCHI	
Inventor's Signature 		Date 12 Feb 2004	
Residence: City KINGSTON	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address 1338 PRINCESS STREET, #4 432, Fieldstone,			
City KINGSTON	State ONTARIO	ZIP K7L 1K2	Country CANADA
<input checked="" type="checkbox"/> Additional inventor or a legal representative not being named on this 1 supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.			

(Page 2 of 2)

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PAGE 04

PTOISS402A (08-03)

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## DECLARATION

ADDITIONAL INVENTOR(S)  
Supplemental Sheet

Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
KENT		NUTT	
Inventor's Signature	State	Country	Date
LAKEFIELD	ONTARIO	CANADA	
Residence: City	State	Country	Citizenship
R.R.2			
Mailing Address			
Mailing Address	State	Zip	Country
LAKEFIELD	ONTARIO	K0L 2P0	CANADA
City	State	Zip	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature	State	Country	Date
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address	State	Zip	Country
City	State	Zip	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature	State	Country	Date
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address	State	Zip	Country
City	State	Zip	Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.23. The information is required to obtain or maintain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 31 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>		Attorney Docket Number 57084-A
First Named Inventor MCGAUGHEY, Donald R.		COMPLETE IF KNOWN
Application Number		
Filing Date		
Art Unit		
Examiner Name		

☒ Declaration Submitted With Initial Filing      OR      ☐ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16 (e)) required)

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

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(Title of the invention)

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				Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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**DECLARATION — Utility or Design Patent Application**

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Name			
Address			
City	State	ZIP	
Country	Telephone	Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) DONALD R.		Family Name or Surname MCGAUGHEY	
Inventor's Signature		Date	
Residence: City ODESSA	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address RR#1			
City ODESSA	State ONTARIO	ZIP K0H 2H0	Country CANADA
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) MOHAMMED		Family Name or Surname ARBOUCHI	
Inventor's Signature		Date	
Residence: City KINGSTON	State ONTARIO	Country CANADA	Citizenship CANADIAN
Mailing Address 1338 PRINCESS STREET, #94			
City KINGSTON	State ONTARIO	ZIP K7M 7N3	Country CANADA
<input checked="" type="checkbox"/> Additional inventors or a legal representative are being named on the 1 supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.			

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ID: 6133845723

PAGE 3/6

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DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet		Page 1 of 1
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any))		Family Name or Surname		
KGN		NUTT		
Inventor's Signature		Date		Feb 12/04
Residence: City		Residence: State	Residence: Country	Citizenship
LAKEFIELD		ONTARIO	CANADA	CANADIAN
Mailing Address				
Mailing Address				
City		State	Zip	Country
LAKEFIELD		ONTARIO	N0L 2H0	CANADA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any))		Family Name or Surname		
Inventor's Signature		Date		
Residence: City		Residence: State	Residence: Country	Citizenship
Mailing Address				
Mailing Address				
City		State	Zip	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any))		Family Name or Surname		
Inventor's Signature		Date		
Residence: City		Residence: State	Residence: Country	Citizenship
Mailing Address				
Mailing Address				
City		State	Zip	Country

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 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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# **POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number	
Filing Date	
First Named Inventor	MC GAUGHEY, Donald R. et al.
Title	MOTOR SPEED ESTIMATION...
Art Unit	
Examiner Name	
Attorney Docket Number	67084-A

I hereby appoint:

☒ Practitioner associated with the Customer Number:

02048

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/06)

SIGNATURE of Applicant or Assignee of Record

Name	ANTHONY LAZZON
Signature	<i>[Signature]</i>
Date	12 Feb 2004
Telephone	613-992-3800

NOTE: Signatures of all the inventor or assignee of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 1 forms are submitted.

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: MCCAUGHEY, Donald R. et al.

Application No./Patent No.: \_\_\_\_\_ Filed/Issue Date: \_\_\_\_\_

Inventor: MOTOR SPEED ESTIMATION FOR STABILIZED MOTOR CONTROL

Her Majesty the Queen in Right of Canada as

Represented by the Minister of National Defence, a

(Government Agency)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded  
in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is  
attached.

OR

B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as shown  
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Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.☐ Copies of assignments or other documents in the chain of title are attached.(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document)  
must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be  
recorded in the records of the USPTO. See MPEP 302.08)

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

12 Feb 2004

Date

613-992-3800

Telephone number

ANTHONY LAUZON

Typed or printed name

Signature

Director of Intellectual Property

Title

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